Yong Chu 01/08/2008 10/568,159B \$%^STN; HighlightOn=; HighlightOff=; Connecting via Winsock to STN Welcome to STN International! Enter x:x LOGINID: ssptaylc1626 PASSWORD: TERMINAL (ENTER 1, 2, 3, OR ?):2 Welcome to STN International Web Page for STN Seminar Schedule - N. America NEWS CAS REGISTRY enhanced with new experimental property tags NEWS AUG 06 FSTA enhanced with new thesaurus edition NEWS AUG 06 AUG 13 CA/CAplus enhanced with additional kind codes for granted NEWS patents CA/CAplus enhanced with CAS indexing in pre-1907 records AUG 20 NEWS 5 Full-text patent databases enhanced with predefined NEWS AUG 27 patent family display formats from INPADOCDB USPATOLD now available on STN NEWS AUG 27 CAS REGISTRY enhanced with additional experimental NEWS AUG 28 8 spectral property data NEWS 9 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index FORIS renamed to SOFIS NEWS 10 SEP 13 INPADOCDB enhanced with monthly SDI frequency NEWS 11 SEP 13 CA/CAplus enhanced with printed CA page images from NEWS 12 SEP 17 1967-1998 CAplus coverage extended to include traditional medicine NEWS 13 SEP 17 patents EMBASE, EMBAL, and LEMBASE reloaded with enhancements NEWS 14 SEP 24 CA/CAplus enhanced with pre-1907 records from Chemisches NEWS 15 OCT 02 Zentralblatt NEWS 16 OCT 19 BEILSTEIN updated with new compounds NOV 15 Derwent Indian patent publication number format enhanced NEWS 17 WPIX enhanced with XML display format NEWS 18 NOV 19 ICSD reloaded with enhancements NEWS 19 NOV 30 NEWS 20 DEC 04 LINPADOCDB now available on STN BEILSTEIN pricing structure to change NEWS 21 DEC 14 USPATOLD added to additional database clusters NEWS 22 DEC 17 NEWS 23 DEC 17 IMSDRUGCONF removed from database clusters and STN DEC 17 DGENE now includes more than 10 million sequences NEWS 24 DEC 17 TOXCENTER enhanced with 2008 MeSH vocabulary in NEWS 25 MEDLINE segment MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary NEWS 26 DEC 17 CA/CAplus enhanced with new custom IPC display formats DEC 17 NEWS 27 STN Viewer enhanced with full-text patent content NEWS 28 DEC 17

from USPATOLD

NEWS 29 JAN 02 STN pricing information for 2008 now available

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CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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http://www.cas.org/support/stngen/stndoc/properties.html

=> Uploading C:\Documents and Settings\ychu\Desktop\Case\10568159\10568159C.str

chain nodes :

1 2 3 4 5 6 7 23 24 26 27 28

ring nodes :

8 9 10 11 12 13 14 15 16 17

chain bonds :

1-2 1-13 2-3 3-4 4-5 5-6 6-7 7-8 9-26 9-27 14-28 17-23 17-24

ring bonds :

8-9 8-12 9-10 10-11 11-12 13-14 13-17 14-15 15-16 16-17

exact/norm bonds :

8-9 8-12 9-10 9-26 9-27 10-11 11-12 13-14 13-17 14-15 14-28 15-16 16-17

17-23 17-24

exact bonds :

1-2 1-13 2-3 3-4 4-5 5-6 6-7 7-8

G1:H, CH3, CH2, Et, n-Pr, i-Pr

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:Atom 9:Atom

10:Atom

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 23:CLASS 24:CLASS

26:CLASS

27:CLASS 28:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 15:44:15 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2495 TO ITERATE

80.2% PROCESSED 2000 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE

NLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

46904 TO 52896

PROJECTED ANSWERS:

6071 TO 8349

L2 50 SEA

50 SEA SSS SAM L1

=>

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chain nodes :

1 2 3 4 5 6 7 23 24 26 27 28 29 30 33 34

ring nodes :

8 9 10 11 12 13 14 15 16 17

chain bonds :

1-2 1-13 2-3 3-4 4-5 5-6 6-7 7-8 9-26 9-27 12-28 14-33 17-23 17-24

28-29 29-30 33-34

ring bonds :

8-9 8-12 9-10 10-11 11-12 13-14 13-17 14-15 15-16 16-17

exact/norm bonds :

8-9 8-12 9-10 9-26 9-27 10-11 11-12 12-28 13-14 13-17 14-15 15-16 16-17

17-23 17-24

exact bonds :

1-2 1-13 2-3 3-4 4-5 5-6 6-7 7-8 14-33 28-29 29-30 33-34

G1:H,CH3,CH2,Et,n-Pr,i-Pr

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:Atom 9:Atom

10:Atom

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 23:CLASS 24:CLASS

26:CLASS

27:CLASS 28:CLASS 29:CLASS 30:CLASS 33:CLASS 34:CLASS

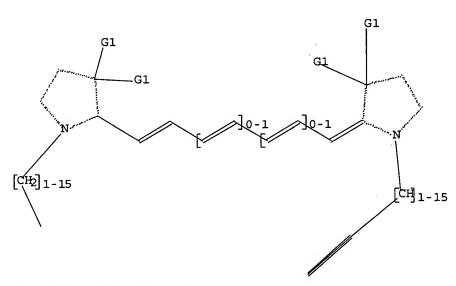
L3 STRUCTURE UPLOADED

=> d

L3 HAS NO ANSWERS

L3

STR



G1 H, Me, CH2, Et, n-Pr, i-Pr

Structure attributes must be viewed using STN Express query preparation.

=> s 13

SAMPLE SEARCH INITIATED 15:50:01 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED -

8 TO ITERATE

100.0% PROCESSED

8 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 8 TO 329
PROJECTED ANSWERS: 1 TO 80

L4 .1 SEA SSS SAM L3

=> s 13 full

FULL SEARCH INITIATED 15:50:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 118 TO ITERATE

100.0% PROCESSED 118 ITERATIONS 26 ANSWERS

SEARCH TIME: 00.00.01

L5 26 SEA SSS FUL L3

=> file caplus

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ENTRY SESSION

FULL ESTIMATED COST 182.96 183.17

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=> s 15

L6 3 L5

=> d ibib abs hitstr tot

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:141165 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 142:242215

TITLE: Cyanine-type compounds having an alkynyl linker arm

INVENTOR(S): Caputo, Giuseppe

PATENT ASSIGNEE(S): Italy

SOURCE: PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

GI

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	PATENT NO.				KIND DATE			APPLICATION NO.					DATE				
	WO 2005014723 WO 2005014723						WO 2004-IB51447					20040811					
WO									TO 70	ממ	D.C.	DD.	DW.	DM	D 7	C 3	CII
	W:									BB,							
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	ŪG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZM,	ZW,	AM,
		AZ,	BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,
		SN,	TD,	TG													
EP	EP 1654327			A1 20060510			EP 2004-744780					20040811					
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC	PT,
		ΙE,	SI,	FI,	RO,	CY,	TR,	BG,	CZ,	EE,	HU,	PL,	SK				
US	US 2006230554			A1 20061019			US 2006-568159 -					20060213					
PRIORIT	PRIORITY APPLN. INFO.:						TT 2003-PZ2					A 20030812					
										WO 2	004-	IB51	447	- 1	v 2	0040	811
OTHER S	OTHER SOURCE(S):			MARPAT 142:242215													

The invention relates to cyanine-type fluorescent dyes modified with an alkynyl linker arm such as I are suitable for as markers for biomols., such as for example nucleosides, nucleotides, oligonucleotides, nucleic acids, proteins, peptides, vitamins and hormones. I was manufd. by treating 6-chlorohex-1-yne 22-24 h at 70.degree. with NaI, reaction of the intermediate 12 h with K 3,3,3-trimethylindolenine-5-sulfonate at 120.degree. in sulfolane, and reaction of the 2nd intermediate 90 min at 120.degree. with 2-[(E)-2-[acetyl(phenyl)amino]vinyl]-1-ethyl-3,3-dimethyl-3H-indolium-5-sulfonate, prepd. by reaction of N-ethyl-2,3,3- trimethylindoleninium-5-sulfonate with N,N-diphenylformamide in the presence of acetyl chloride and Ac20.

RL: ARG (Analytical reagent use); IMF (Industrial manufacture); ANST (Analytical study); PREP (Preparation); USES (Uses) (cyanine-type fluorescent compds. having alkynyl arms for linking with biomols.)

Current app

RN 844700-38-5 CAPLUS

CN 3H-Indolium, 1-ethyl-2-[(1E,3E)-3-[1-(5-hexynyl)-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propenyl]-3,3-dimethyl-5-sulfo-; inner salt, potassium salt (9CI) (CA INDEX NAME)

Double bond geometry as shown.

K

IT 844700-39-6P 844700-43-2P 844700-45-4P

844700-46-5P

RL: ARG (Analytical reagent use); IMF (Industrial manufacture); RCT (Reactant); ANST (Analytical study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(cyanine-type fluorescent compds. having alkynyl arms for linking with biomols.)

RN 844700-39-6 CAPLUS

CN 3H-Indolium, 2-[(1E,3E)-3-[1-[6-[4-amino-1-(2-deoxy-.beta.-D-erythro-pentofuranosyl)-1,2-dihydro-2-oxo-5-pyrimidinyl]-5-hexynyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propenyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt, monopotassium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

K

RN

CN 3H-Indolium, 1-(4-carboxybutyl)-2-[(1E,3E,5E)-5-[1-(5-hexynyl)-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-, inner salt, monosodium salt (9CI) (CA INDEX NAME)

Double bond geometry as shown.

Na

RN 844700-45-4 CAPLUS

CN 3H-Indolium, 2-[(1E,3E)-3-[1-[6-[4-amino-1-[2-deoxy-5-0-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-.beta.-D-erythropentofuranosyl]-1,2-dihydro-2-oxo-5-pyrimidinyl]-5-hexynyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propenyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt, monopotassium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

HO3S

Me

Me

Me

Me

SO3-

White
$$A$$
 is the second of A is the secon

K

RN 844700-46-5 CAPLUS

CN Borate(2-), [1-(4-carboxybuty1)-2-[(1E,3E,5E)-5-[1,3-dihydro-3,3-dimethyl-1-[6-[4-[(5-methyl-1H-pyrrol-2-yl-.kappa.N)(5-methyl-2H-pyrrol-2-ylidene-.kappa.N)methyl]phenyl]-5-hexynyl]-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-3H-indoliumato(4-)]difluoro-, sodium hydrogen, (T-4)- (9CI) (CA INDEX NAME)

PAGE 2-A

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2008 ACS on STN ANSWER 2 OF 3

ACCESSION NUMBER:

2002:606646 CAPLUS Full-text

DOCUMENT NUMBER:

137:177092

TITLE:

Photopolymerizable composition containing organic

borate photopolymerization initiator for image

recording material

INVENTOR(S):

Takashima, Masanobu; Fukushige, Yuichi

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 47 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002229194	Α	20020814	JP 2001-25581	20010201
US 2002182530	A1	20021205	US 2002-60153	20020201
US 6824953	B2	20041130		
PRIORITY APPLN. INFO.:			JP 2001-25581 A	20010201
GI				

$$R^1 - N - Z^1$$
 $C - L^1 = C - L^2 = C - X^2$
 $N - R^2$

The photopolymerizable compn. comprises a compd. I (R1,2 = aliph., arom.; R3 = substituent; L1,2 = methine; Z1,2 = 5-membered N-contg. heterocyclyl; and X- = anion) having an ethylenic unsatd. bond and a radical generating agent forming a radical upon reaction with the compd. The radical generating agent is an org. borate R11R12R13R14B- G+ (R11-14 = aliph., arom., heterocyclyl, etc.; and G+ = cation). The image recording material comprises a color-forming component (A) encapsulated in a microcapsule and a color-forming component (B) made from the compd. The photopolymerizable compn. provided high sensitivity not only to UV light but also to light ranging from visible light to IR light.

RL: TEM (Technical or engineered material use); USES (Uses) (photopolymerizable compn. contg. org. borate photopolymn. initiator for image recording material)

RN 446306-14-5 CAPLUS

CN 3H-Indolium, 2-[3-[1,3-dihydro-3,3-dimethyl-5-(methylsulfonyl)-1-(2-pentynyl)-2H-indol-2-ylidene]-2-[[1,3-dihydro-3,3-dimethyl-5-(methylsulfonyl)-1-(2-pentynyl)-2H-indol-2-ylidene]methyl]-1-propenyl]-3,3-dimethyl-5-(methylsulfonyl)-1-(2-pentynyl)-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 446306-13-4 CMF C52 H60 N3 O6 S3

CM 2

CRN 37181-39-8 CMF C F3 O3 S

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:602556 CAPLUS Full-text

DOCUMENT NUMBER: 135:187732

TITLE: Cyanine-type organic colorant, photopolymerizable

composition, and recording material

INVENTOR(S): Takashima, Masanobu; Fukushige, Yuichi

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
JP 2001226417	A	20010821	JP 2000-34935	20000214		
US 2002051926	A1	20020502	US 2001-781410	20010213		
PRIORITY APPLN. INFO.:			JP 2000-34935 A	20000214		
OTHER SOURCE(S):	MARPAT	135:187732				
GT						

X-

II

I

The colorant is that represented as I [R13-R18 = H, aliph. group, arom. group; R19 = aliph. hydrocarbylene; L21-L23 = (substituted) methine; substituents in L21-L23 may be linked to form unsatd. alicyclic or unsatd. heterocyclic group; benzene ring Z21, Z22 may be condensed with other benzene rings; condensed Z21, Z22 may be substituted; n" = 0-3; X- = anion-forming group]. The photopolymerizable compn. contains an ethylenically unsatd. monomer, a methine compd. II [R1 = aliph. group involving C.tplbond.C; R2 = H, aliph. group, arom. group; L1-L3 = (substituted) methine; substituents in L1-L3 may be linked to form unsatd. alicyclic group or unsatd. heteocyclic group; Z1, Z2 =

at. group forming 5- or 6-membered N-contg. heterocycle which may be condensed with (substituted) arom. ring; n=0-3; X- is the same in I]. and an agent generating radical in interaction with II. The thermal photosensitive printing material contains a color former, a color developer, and the photopolymerizable compn. showing good decoloration of the sensitizer II residue as a result of its decompn. by radicals under exposure.

IT 355367-52-1 355367-58-7 355367-60-1

RL: CAT (Catalyst use); USES (Uses)

(thermal printing material contg. color former, color developer, and a photosensitive compn. assocd. with cyanine sensitizer)

RN 355367-52-1 CAPLUS

CN 3H-Indolium, 5-(ethoxycarbonyl)-2-[3-[5-(ethoxycarbonyl)-1,3-dihydro-3,3-dimethyl-1-(2-propynyl)-2H-indol-2-ylidene]-1-propenyl]-3,3-dimethyl-1-(2-propynyl)-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 355367-51-0 CMF C35 H37 N2 O4

CM 2

CRN 37181-39-8 CMF C F3 O3 S

RN 355367-58-7 CAPLUS

CN 3H-Indolium, 2-[3-chloro-5-[1,3-dihydro-3,3-dimethyl-1-(2-propynyl)-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-1-(2-propynyl)-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 355367-57-6 CMF C31 H30 Cl N2

CM 2

CRN 37181-39-8 CMF C F3 O3 S

RN 355367-60-1 CAPLUS
CN 3H-Indolium, 1-(2-butynyl)-2-[5-[1-(2-butynyl)-1,3-dihydro-3,3-dimethyl-5-(methylsulfonyl)-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-5-(methylsulfonyl)-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 355367-59-8 CMF C35 H39 N2 O4 S2

CM 2

CRN 37181-39-8 CMF C F3 O3 S

IT 355367-50-9P 355367-54-3P 355367-56-5P

355367-67-8P

RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)

(thermal printing material contg. color former, color developer, and a photosensitive compn. assocd. with cyanine sensitizer)

RN 355367-50-9 CAPLUS

CN 3H-Indolium, 2-[3-[1,3-dihydro-3,3-dimethyl-1-(2-propynyl)-2H-indol-2-ylidene]-1-propenyl]-3,3-dimethyl-1-(2-propynyl)-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 355367-49-6 CMF C29 H29 N2

CM 2

CRN 37181-39-8 CMF C F3 O3 S

RN 355367-54-3 CAPLUS

CN 3H-Indolium, 2-[3-[1,3-dihydro-3,3-dimethyl-5-(methylsulfonyl)-1-(2-propynyl)-2H-indol-2-ylidene]-1-propenyl]-3,3-dimethyl-5-(methylsulfonyl)-1-(2-propynyl)-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 355367-53-2 CMF C31 H33 N2 O4 S2

· CM 2

CRN 37181-39-8 CMF C F3 O3 S

RN 355367-56-5 CAPLUS

CN 3H-Indolium, 1-(2-butynyl)-2-[3-[1-(2-butynyl)-1,3-dihydro-3,3-dimethyl-5-(methylsulfonyl)-2H-indol-2-ylidene]-1-propenyl]-3,3-dimethyl-5-(methylsulfonyl)-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 355367-55-4 CMF C33 H37 N2 O4 S2

CM 2

CRN 37181-39-8 CMF C F3 O3 S

RN 355367-67-8 CAPLUS

CN 3H-Indolium, 1-(3-butynyl)-2-[3-[1-(3-butynyl)-1,3-dihydro-3,3-dimethyl-5-(methylsulfonyl)-2H-indol-2-ylidene]-1-propenyl]-3,3-dimethyl-5-(methylsulfonyl)-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 355367-66-7 CMF C33 H37 N2 O4 S2

CM 2

CRN 37181-39-8 CMF C F3 O3 S

=>

Executing the logoff script...

=> LOG H

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 17.31 200.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE TOTAL ENTRY SESSION

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-2.40

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